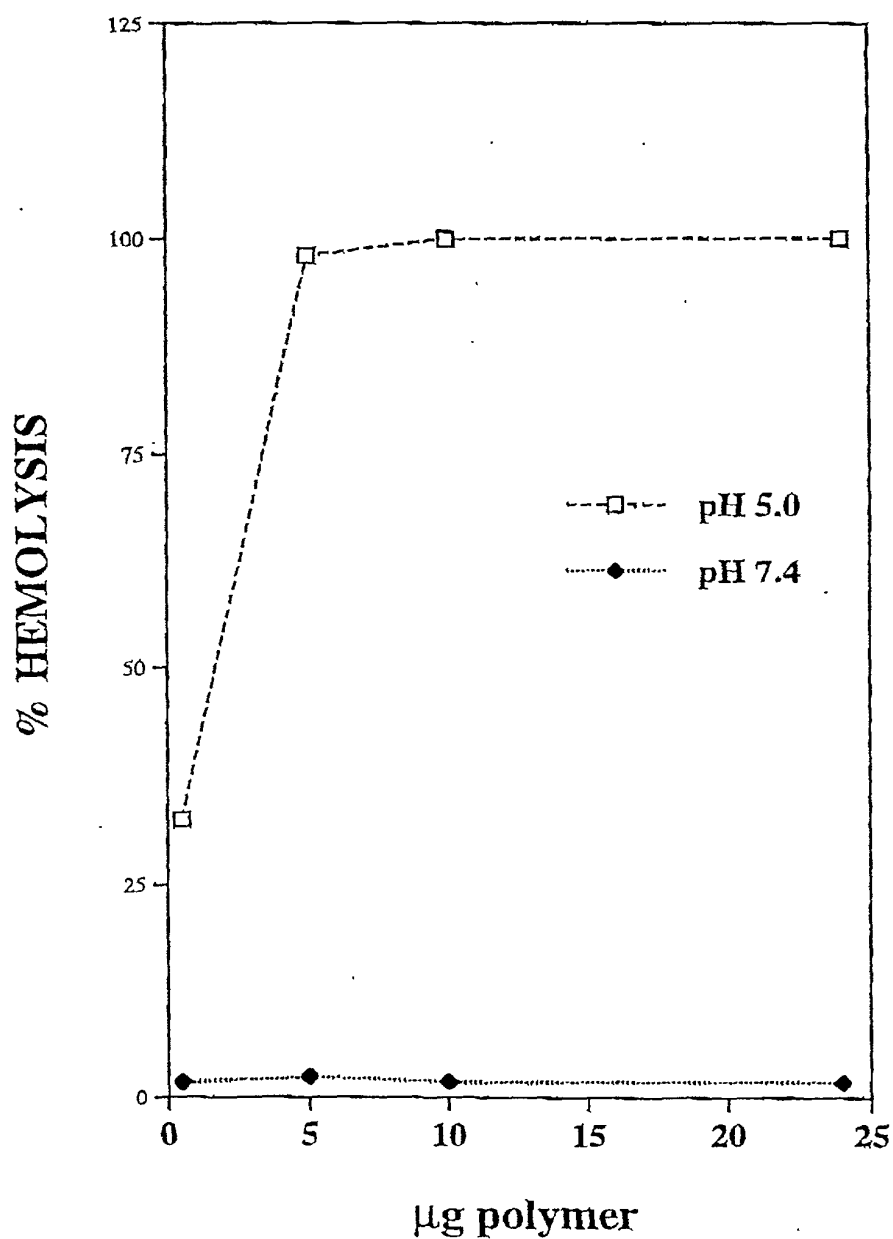


FIGURE 1

HEMOLYSIS BY ACETAL-PEG-COPOLYMER

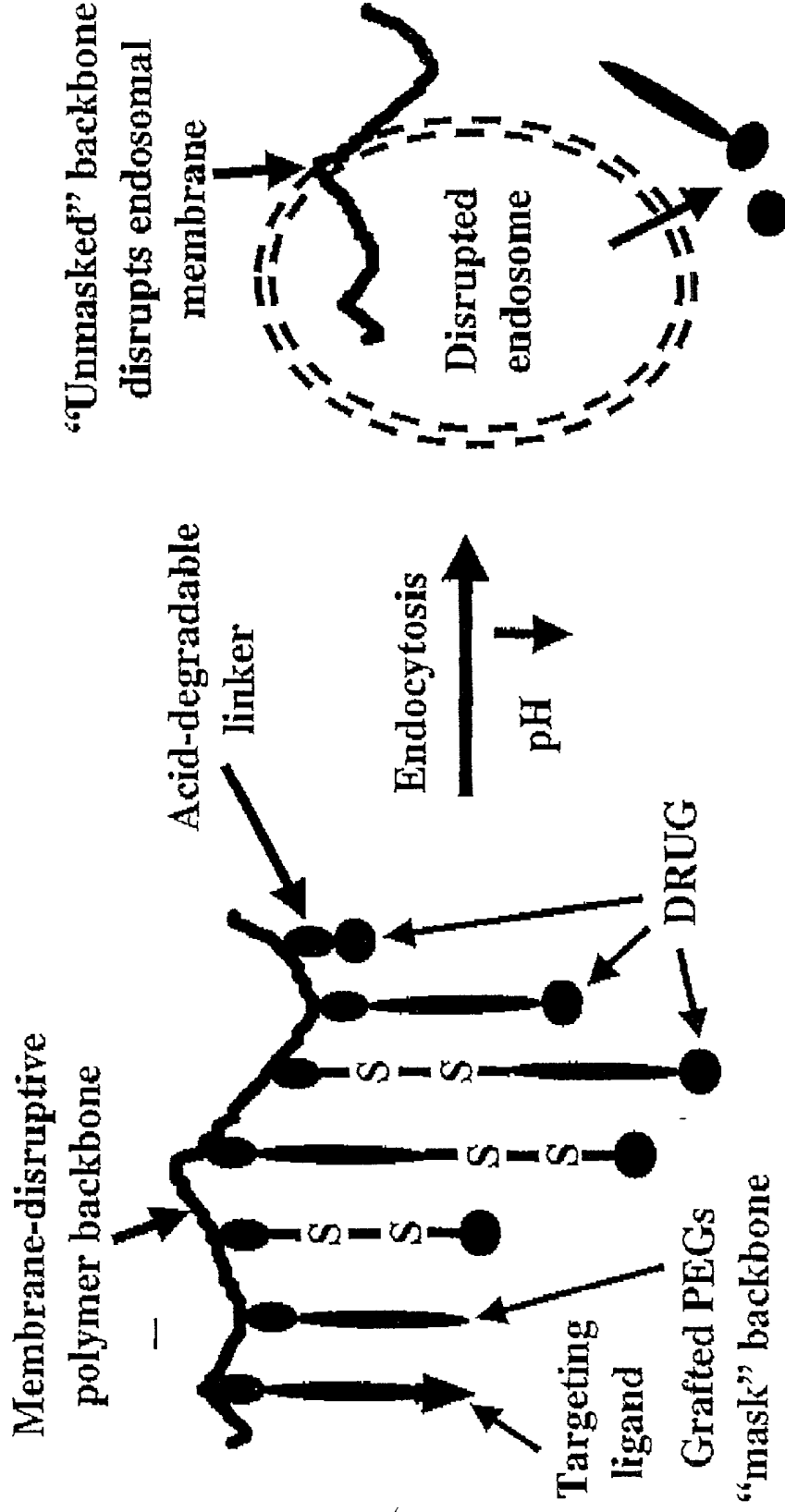


Experimental Conditions

- (1) 2% RBCs in 1ml PBS buffer
- (2) Incubation temperature 37C
- (3) Incubation time 20 minutes
- (4) Experiments done in triplicate STD < 2%

FIGURE 2

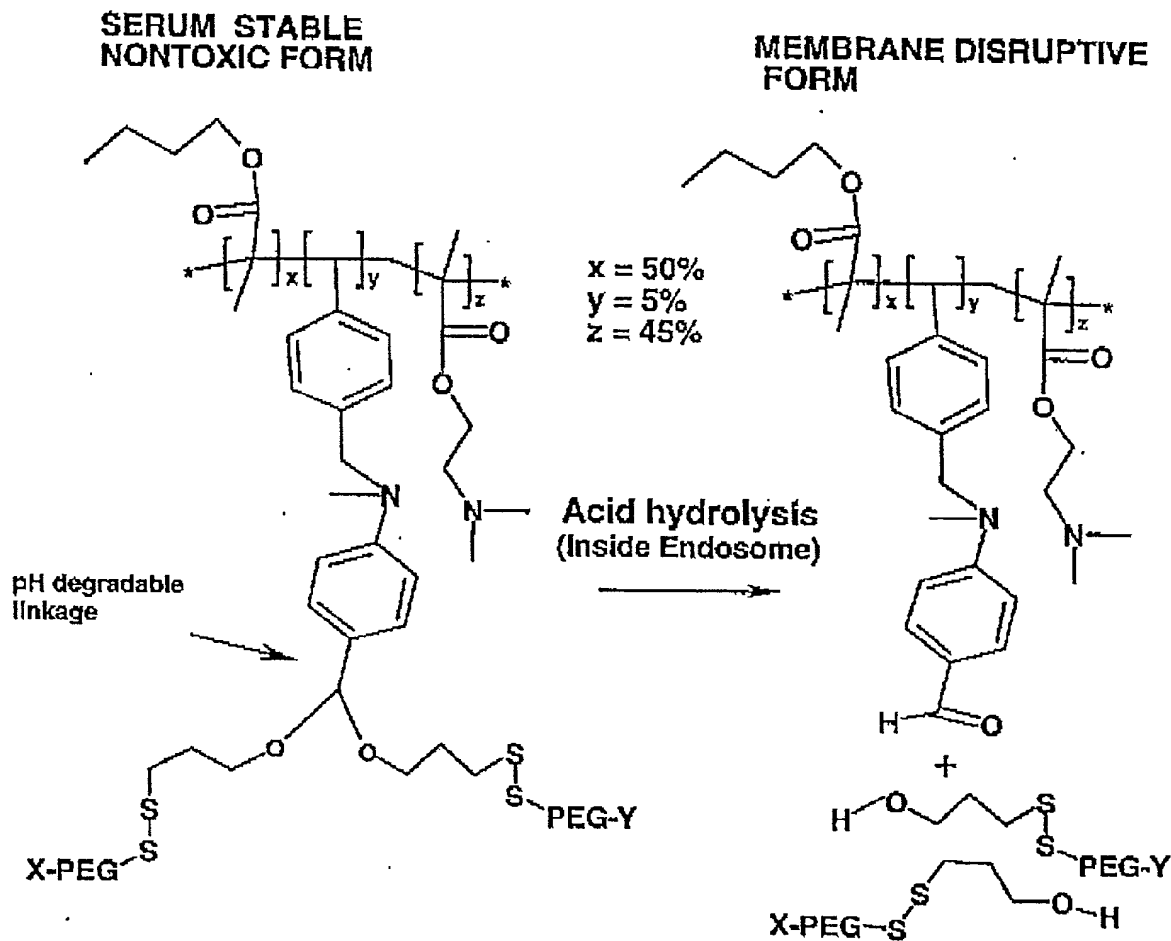
Acid-Degradable Bonds Enhance Endosomal Drug Release of Targeted Polymer Carrier



DRUG (●) may be conjugated, or complexed directly, or linked by PEG, -S-S- or (PEG/-S-S-) bonds to backbone, each via an acid-degradable bond.

Free DRUG or PEG-DRUG delivered into cytoplasm.

Figure 4



Encrypted Polymer E1: X = Y = Methoxy
 Encrypted Polymer E2: X = Fluorescein, Y = Lactose
 Encrypted Polymer E3: X = Hexalysine, Y = Lactose

Figure 5

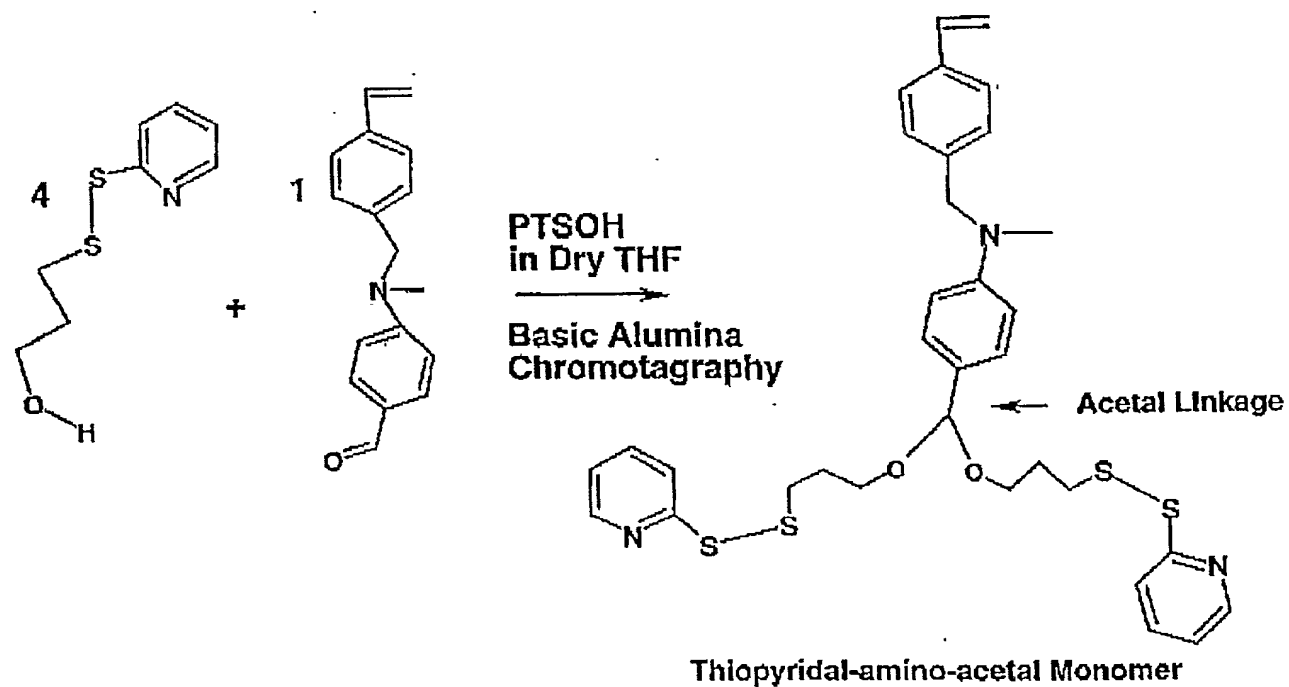
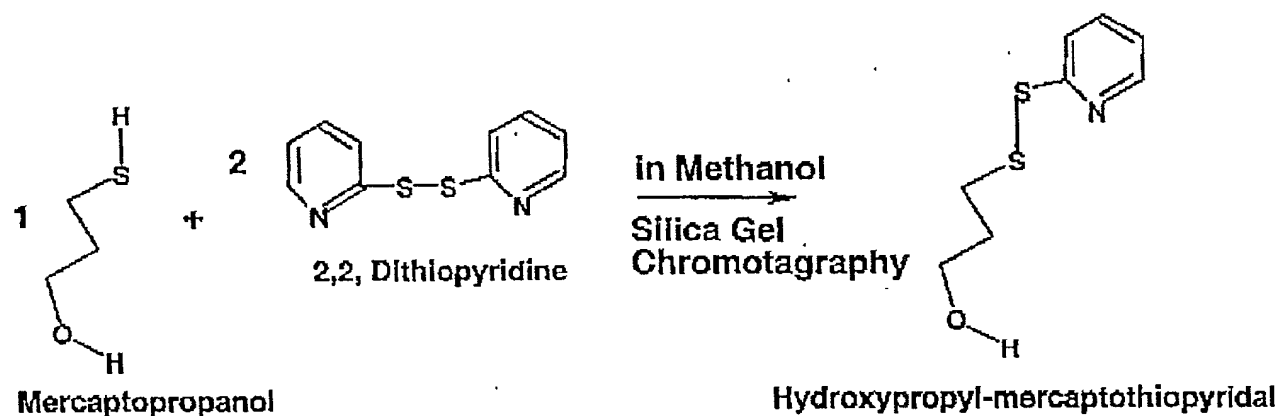
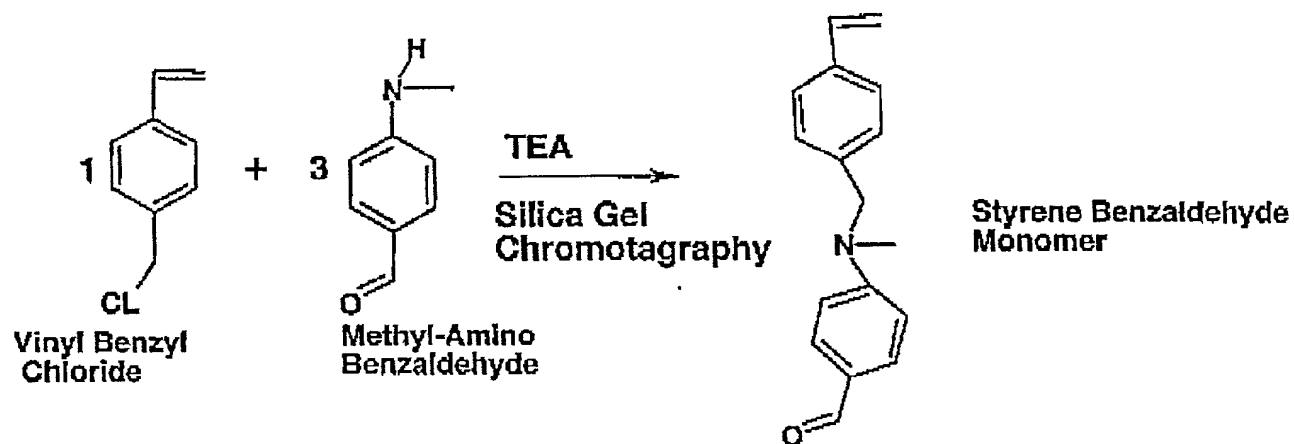
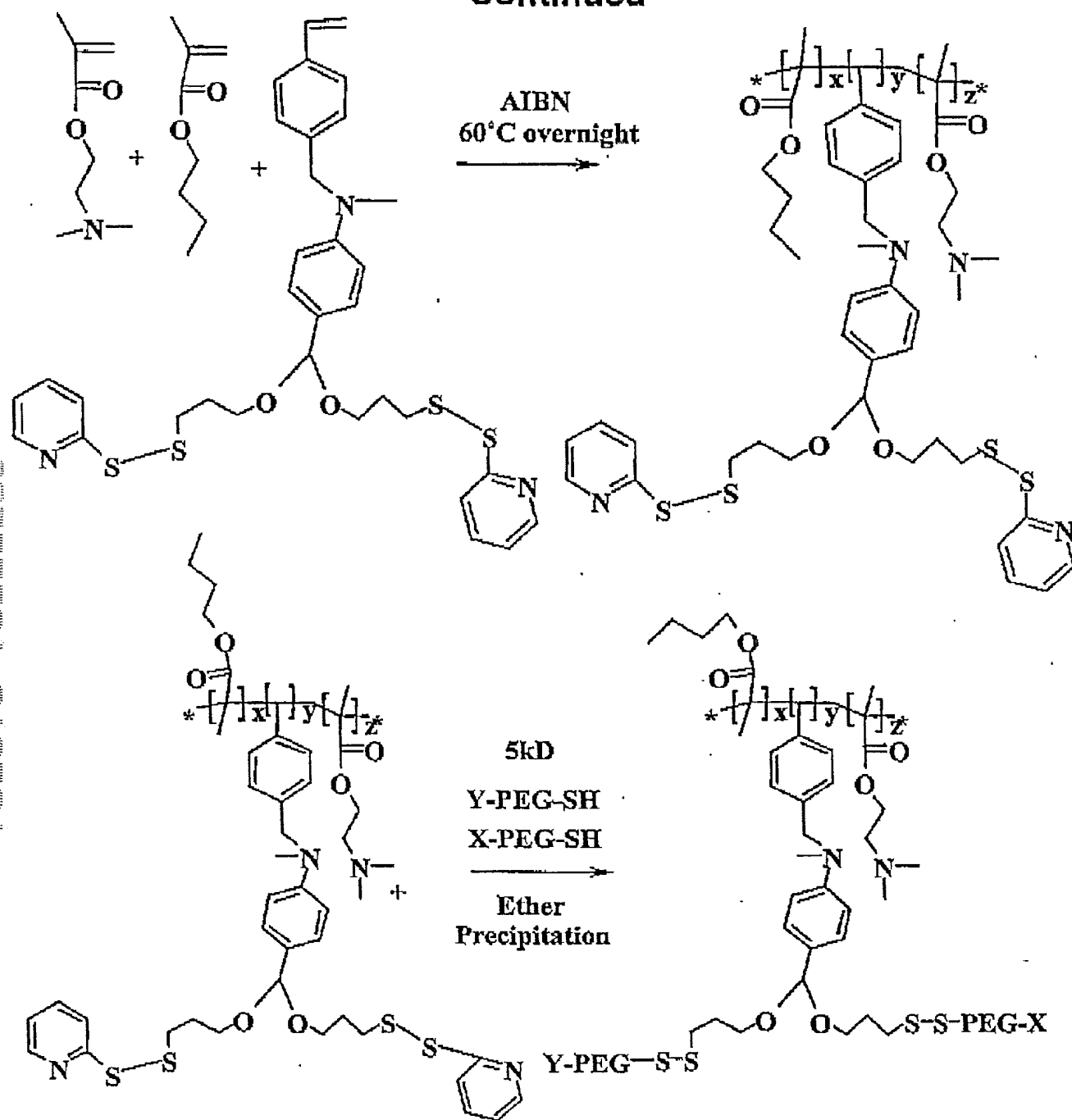


Figure 5
Continued



Encrypted Polymer E1: X = Y = Methoxy
 Encrypted Polymer E2: X = Fluorescein, Y = Lactose
 Encrypted Polymer E3: X = Hexalysine, Y = Lactose

Figure 6A

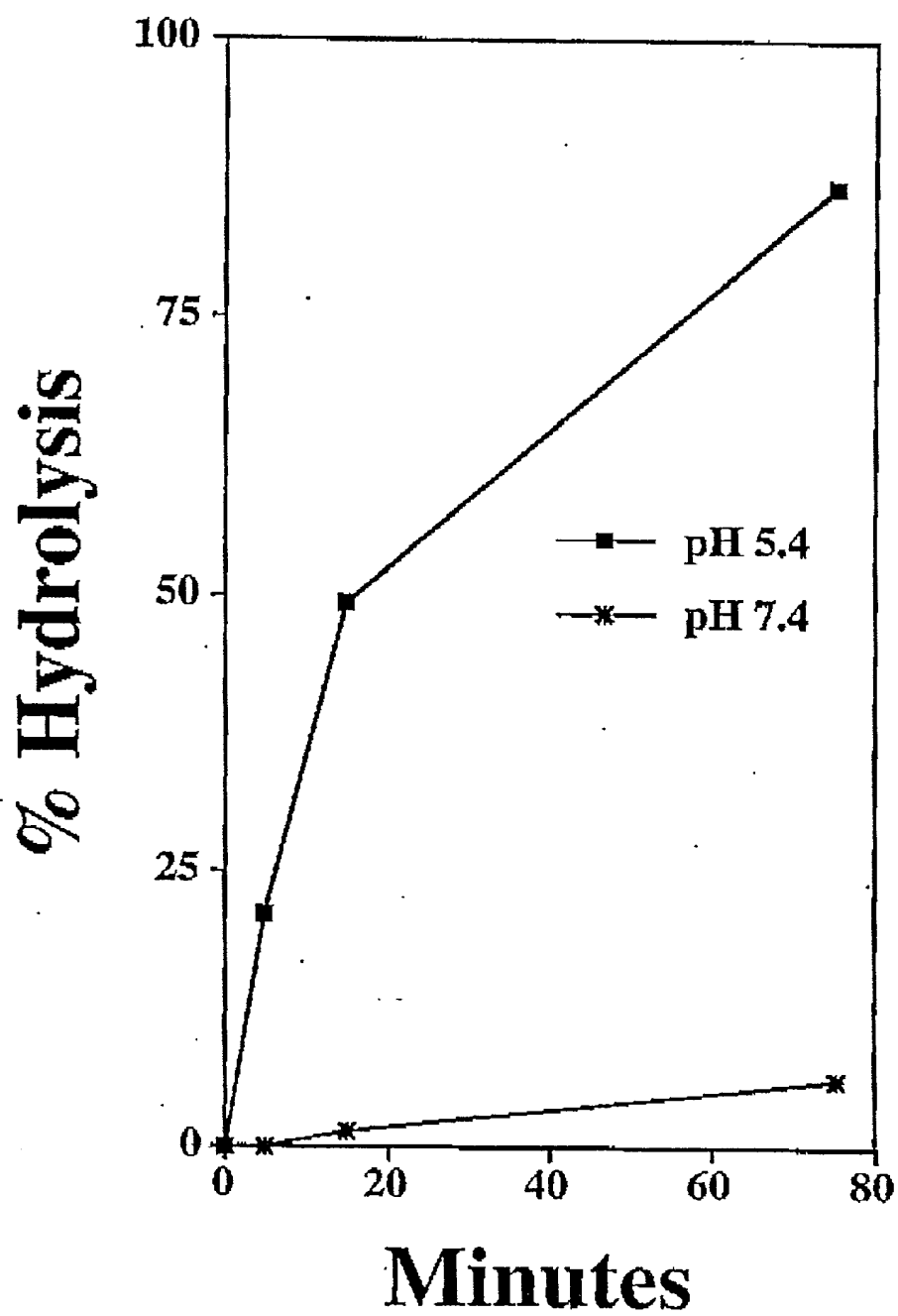


Figure 6B

